

LOAD DATA SHEET - PAGE 1 OF 3 - AEROPLANE WEIGHT

Aeroplane Type:..... PIPER PA28-181

Registration Marking:..... **VH-SFA** Serial No: 28-7690364

ISSUE:..... TWO	DATE:..... 18.02.08	EXPIRY:..... INDEFINITE
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AEROPLANE WEIGHT AND CENTRE OF GRAVITY DATA:

ITEM	WEIGHT (Kg)	ARM (mm aft of datum)	MOMENT (Kg.mm)	CABIN CONFIGURATION
EMPTY	717.4	2221.9	1593975	FOUR SEATS TOTAL
STANDARD CABIN CONFIGURATION				
THE FOLLOWING IMPERIAL UNITS ARE FOR USE WITH THE PILOTS HANDBOOK SECTION SIX				
	(lb)	(in)	(in.lb)	
EMPTY	1581.6	87.48	138351	FOUR SEATS TOTAL

NOTE: The above empty weights include:-

EMPTY - unusable fuel and **FULL** oil

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LOAD DATA SHEET - PAGE 2 OF 3 - EQUIPMENT LIST

This list details the items included in the empty weight shown in Page 1.

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ENGINES/PROPELLERS

Lycoming 0-360-A4M..... 1

Sensenich 76EM8S5..... 1

COMPASSES

Magnetic..... 1

THERMOMETERS

Oil Temp..... 1

Carb. Air Temp..... 1

Outside Air Temp..... 1

INDICATORS

Airspeed..... 1

Directional Gyro..... 1

Exhaust Gas Temp..... 1

Flight Hour..... 1

Gyro Horizon..... 1

Stall Warning..... 1

Tacho Recording..... 1

Trim Indicator..... 2

Turn Co-ordinator..... 1

Vertical Speed..... 1

Assigned Altitude..... 1

RADIO EQUIPMENT (TYPE)

ADF..... KING KR87

A/P-F/D..... AUTOCONTROL IIIB

A/P Cpler..... EDO IC-388

Speakers..... 1

G/slope..... PART NAV

Headsets..... 1

HF Com..... 0

GPS/Com ... GARMIN GNS430

VHF Com ... KING KY197

Audio/Mkr... GARMIN GMA340

Txponder... GARMIN GTX320

Encoder..... ACK A-30

DISPOSABLE LOAD LIST

First Aid Kit..... 0

Torch..... 1

V.S.Beacon/E.L.T..... ACK EO-1

Tow Bar..... 0

INSTRUMENTS

Altimeters..... 1

Ammeters..... 1

Clocks..... 1

GAUGES

Engine Oil Pressure..... 1

Fuel Contents..... 2

Fuel Pressure..... 1

Suction Pressure..... 1

LIGHTS

Anti-collision Red..... 1

Inst. Full Panel..... 1

Inst. Flood/Spot..... 1

Landing..... 1

Map Reading..... 1

Cabin Dome..... 1

Navigation..... 3

White Strobes(tips)..... 2

RESTRAINT EQUIPMENT

Rear Bagg Straps..... 2

Inertia Reels..... 2

Lap-sash Harnesses..... 2

Lap Belts..... 2

ELECTRICAL EQUIPMENT

Alternator..... 1

Batteries..... 1

Starters..... 1

External Power..... 0

MISCELLANEOUS EQUIPMENT

Dual Controls..... 1

Fire Ext.(Portable)..... 1

Cabin Heater (Muff)..... 1

Vacuum Pumps..... 1

Heated Pitots..... 1

Alternate Static..... 1

Electric Trim..... 0

Vent Fan..... 1

Wheel Fairings..... 3

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LOAD DATA SHEET - PAGE 3 OF 3 - LOADING SYSTEM

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The following is valid only for the Empty Weight specified in Page 1 of 3 Aeroplane Weight dated.. 18.02.08 and is based on calculations using Occupant Weights of 60 to 90 Kg each.

A...NORMAL CATEGORY OPERATIONS:-

1. OCCUPANTS:-

Load Front to Rear (i.e. Front seats first)
Load Heaviest Passenger in front row

2. BAGGAGE COMPARTMENT LIMITATIONS:-

<u>Number of Occupants</u>	<u>Maximum Baggage</u>
One(pilot)	82.7 Kg
Two	90.7 Kg
Three	50.7 Kg
Four	6.7 Kg

3. FUEL:-

Fuel is limited only by All Up Weight

MAXIMUM TAKE-OFF WEIGHT.....1157 Kg

B...UTILITY CATEGORY OPERATIONS:-

No limitations except Utility Category all up weight limit

MAXIMUM TAKE-OFF WEIGHT.....966 Kg

NOTE: In utility category operations, the
baggage compartment must be empty
and the rear seat unoccupied.

**NOTE: If a full Loading Check is required, refer to Loading Instructions
and Charts in the Pilots Handbook Section Six.**

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VH-SFA
SN-7690364

LOAD CHART BC/PA181/1 PIPER PA28-181 ARCHER

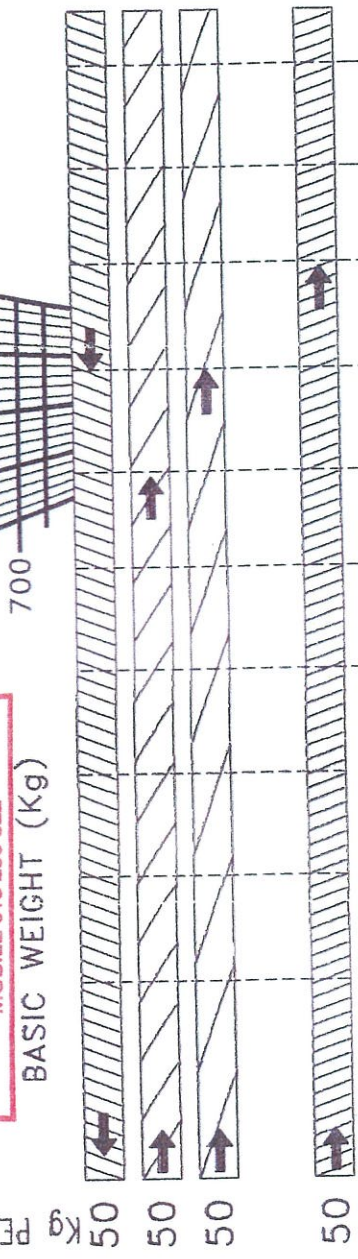
*APPLICABLE TO ALL PA28-181
ARCHER II AND III AIRCRAFT
S/N 28-7690001 AND ON.

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BASIC ARM (mm)
2100 2200 2300
900 800 700

Kg PER DIVISION

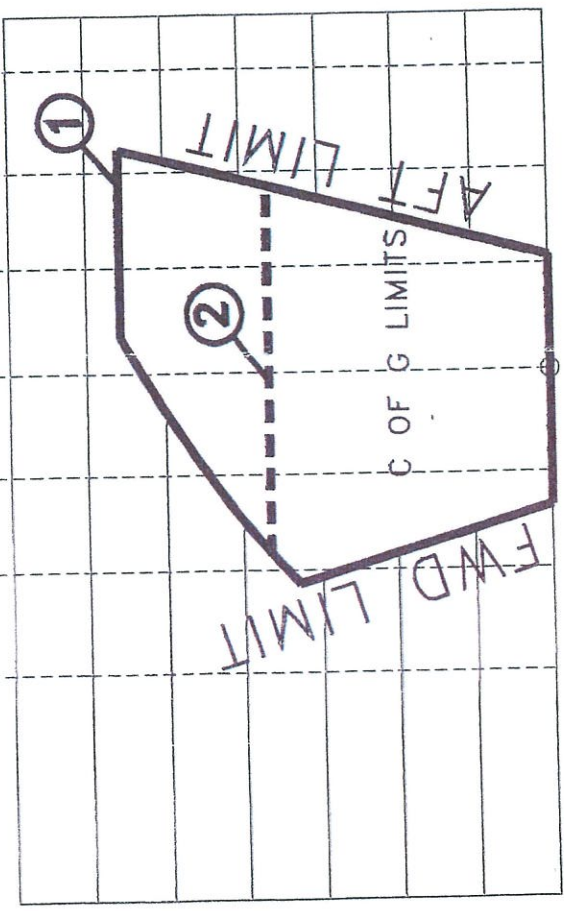
BASIC WEIGHT	
PILOT/CO-PILOT	
REAR SEATS	
BAGGS (MAX 90.7)	
ZERO FUEL WEIGHT	
FUEL (MAX 130)	
TAKE-OFF WEIGHT	
FUEL BURN-OFF	
LANDING WEIGHT	



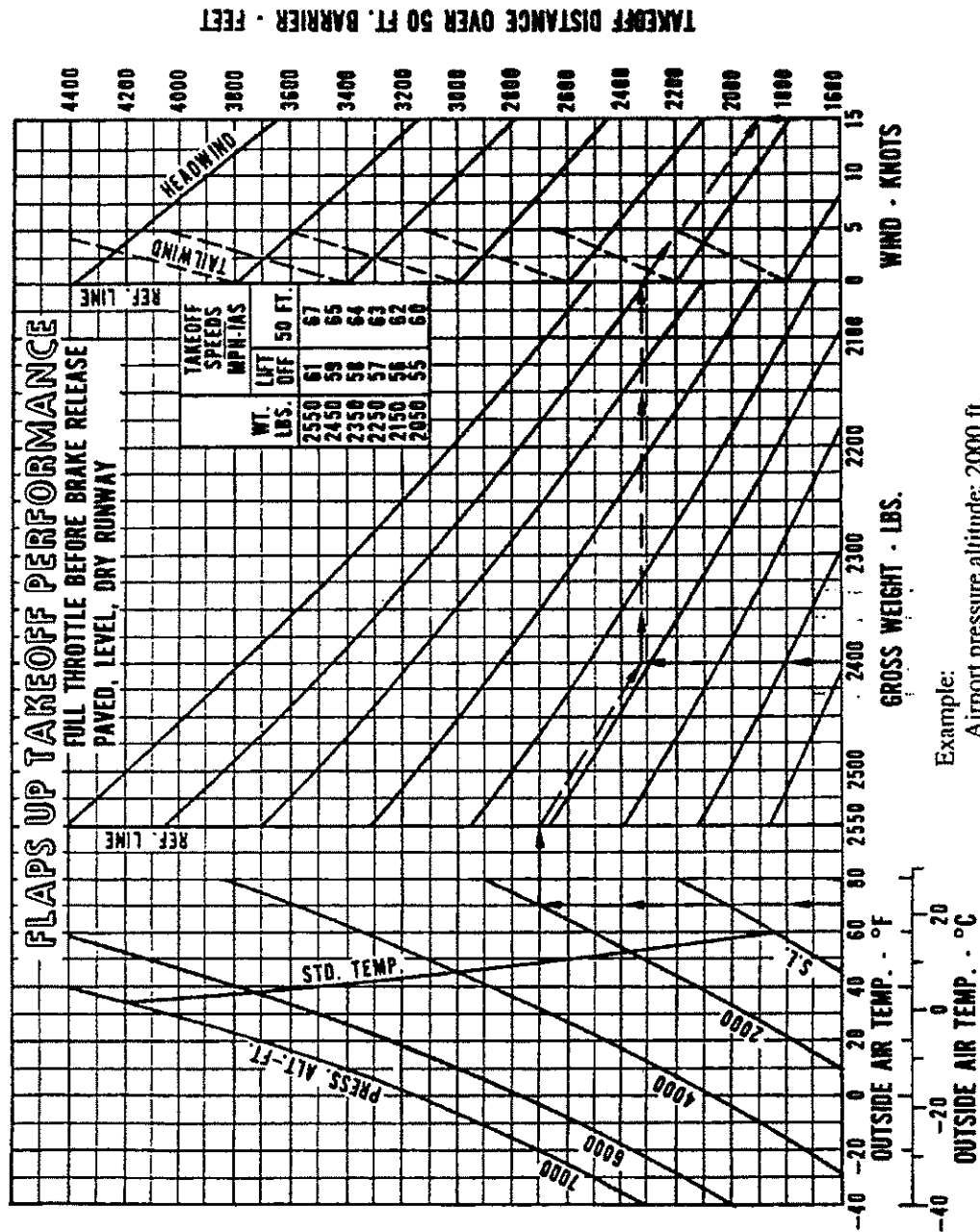
GROSS WEIGHT (Kg)
1200
1100
1000
900
800
700

MAXIMUM TAKE-OFF WEIGHT
① NORMAL — 1157 Kg
② UTILITY - - - 966 Kg

☐	☐	BAGGS
☐	☐	



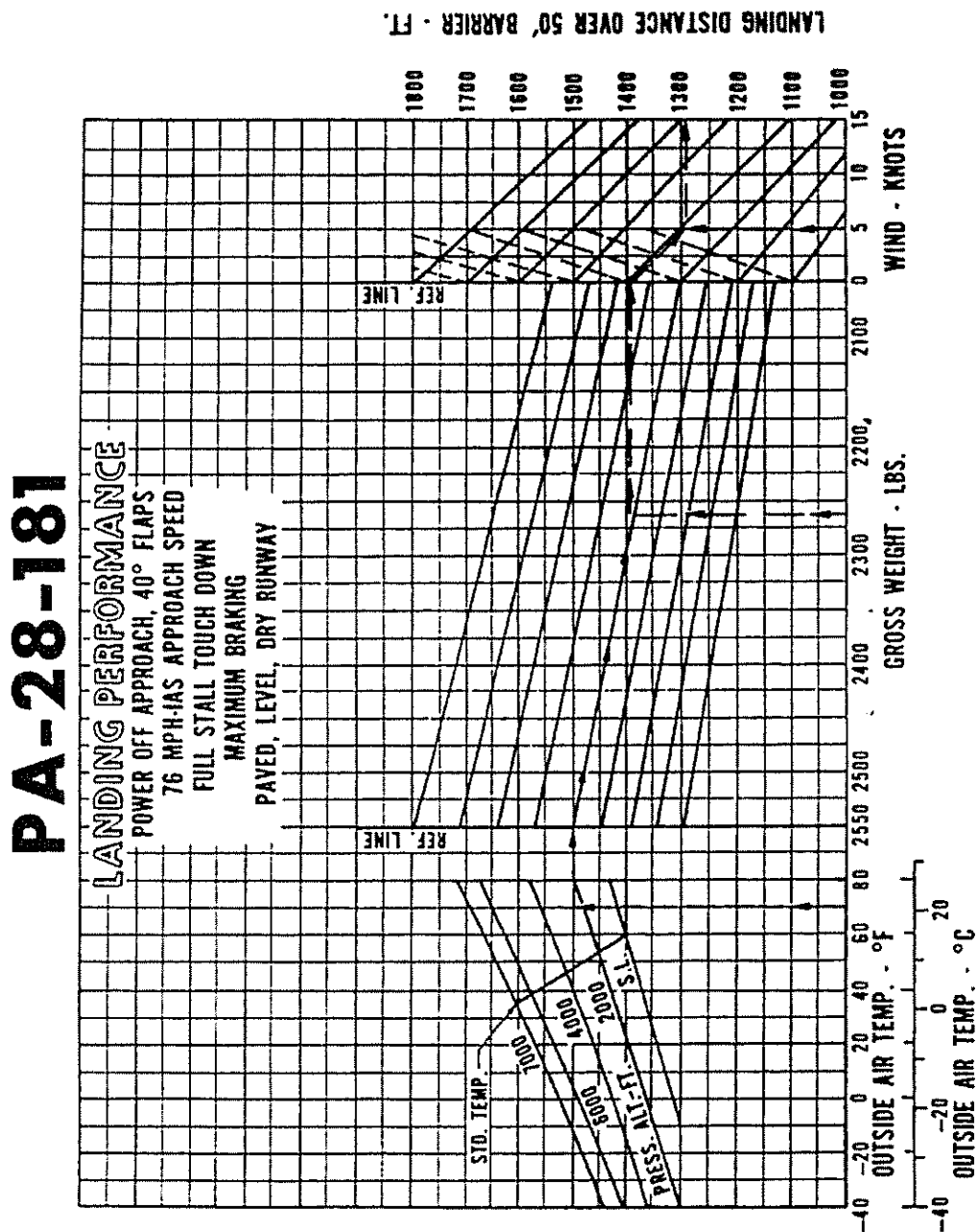
PA-28-181



Example:
Airport pressure altitude: 2000 ft.
Temperature: 70°F
Wind: 15 knots (headwind)
Gross weight: 2400 lbs.
Takeoff distance: 1900 ft.

FLAPS UP TAKEOFF PERFORMANCE

Figure 5-5

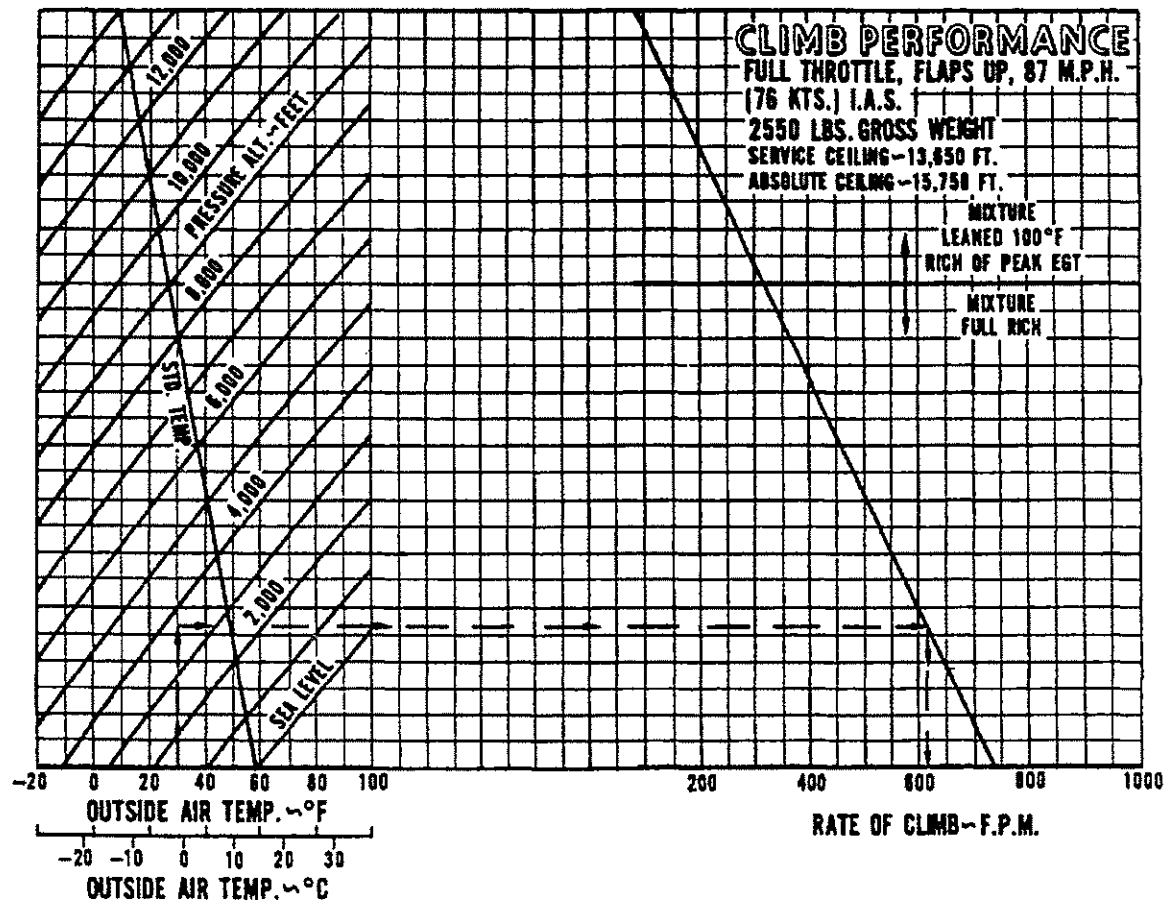


Example:
 Airport pressure altitude: 2300 ft.
 Gross weight: 2264 lbs.
 Temperature: 70°F
 Wind: 5 knots (headwind)
 Landing distance: 1290 ft.

LANDING PERFORMANCE

Figure 5-29

PA-28-181



CLIMB PERFORMANCE

Figure 5-9